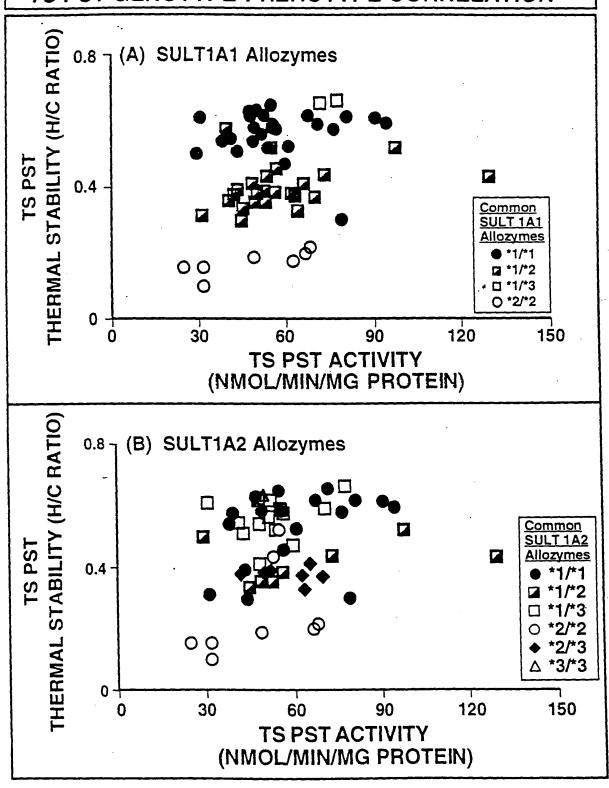


HUMAN LIVER TS PST GENOTYPE-PHENOTYPE CORRELATION



HUMAN SULTIAI GENE SEQUENCE

				=====							
1	ttgctgccag	ergestetes	CECCETTECE GEORGASSAS	citacetace	cacteerra						
101	agageceacg	CHALCERCES	gtgagaggag	CATCACCO	*********	Agcyddaeha	**c2&&&ccc	ecasattees	cevreceria	ceacedace.	
301	geeseagees	antscage::	COURAGERS	GEGEGEGEGE	aracced?	Acadeseas	cccc93#63	Accre (Bace	cancenanca	catesesses	
301	UTOCCCOCOA	taccoacte	toypaagegg	:steacoce.	yequatecta	AAccadaaacv	accaratect	Saccesaber	creagggerg	paccedarda	
102	CCRCOCOCCA	BARDORDORA	igtotocoto	535345555		accasarade.	disseracer	Clabettacce	darcedaced	caecadaca	
501	2000899990	TCATTCACAC	gectoggaat	COURT COL	gadeadageer	ratecceste	CICCCERCCC	cactacctat	eccedectec	. CTCCQ3CC1A	
602		geogycacae.	tggacagece	carcoasacc	cagedeeces	201733384	agatactage	ggeeragggg	aggesatesa	<i>easccadfid</i>	
	Agence Agen	de		CTCCCCCCCC	222222222	ACCORDAGED 33	GC S F C A C F C P	Ratencecka.	act assarae		
702			COLCULATION	Arr capacity	fffffffff	CCACCCCCC	BAST SOCTOR	antencedae	GT CC CC S CC		
802		uy-aga	gaceagy cc.		GECEGGCCCCC	LECCABACTO	CCCCCC CCCC	dteateceace	Carcenan	~~~~~	
20-		# Phahenate	caccycycca	dacecteres.	eggctcttca	CACCCCAGCC	ACT SEACHAFF	DARG ABBRE 1	******		
1001	Acadacerer	-AAnan-ar	ougget trac	cceageses	9345818888	GECCECAAGA	COOPERCECA	POPECTOCOA	ACCAT MARKE		
1101	AAAaaaaaa	265-264638	SERVEREGEE	ecosagaccc	CECTAGASTO	CABBGGC***	* < 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	COT OCCACAA	PPPAGAGGG		
1201		-A-cerdaca		CSCHOCCECE	COLUCTACES	4445638338	CAMARACTAM	OF PRANCOTA	MARKALAFAR		
1301	*8 -8	- an coa case	enderedace	CEESCECTEE	CEEECAGGGA	CLIALLICE		#COUCT PERF		FOR Bob source	
1401	sigigaaact	gctgcctggg	STREETERCE	CACTEGGEAG	CHETCHAPES	ARCECACACE	C. Dacac che	transacas	-cooyecter	CCCCCCCCCC	
1501	Cogtractag	agegcaatec	aggatettae	CCSAG4GERC	ccccanna	Ecaccasana	Canadana	cccdracea	casegracyg	àrccdaca66	
1601	ggatteetta	CAGGGGGGG	GEAGCCACGA	nonet coace	CCCCCASSA	20000000000	********	S===0CTGCC	:59349 ccc 3	ccsaccad	
1701	actrocacet	grecoet.ce	SECONDACTO	ACREACTE OF	townseres	acdahanac.	cccccccc	SESAMBETEE	catacctcag	cttecessac	
1301	tgaccstgga	CTTTABECT	2008186800	Accordance	tanagente	gyggattes	COSCERCOS	Databttatt	EACCEGECEE	ar den en de c	
1901	cttctctate	122212294	SARACECACC	CARACAGE	4333443a+8		-childeceta	cadecceras	PECEGÓGCES	cccctggtct	
2002	cititicists Gagosatsea	acteageesa	ACECTCSONO	Cancanana	accorderate	543ccdcd&c	CCTTEENGGR	TELECCATOR	statteterd	ador coccae	
2101	gagesatgsa actetecea	CACACATOGO	ECCAPACTOR	CONTRACTOR OF THE PROPERTY OF	Acad-Arecr	egecosecie:	Carcerette	accestas:s	fåctterece	ctgcccctc	
2201	actetgeeca casstteaao	405006086	Adecadesed		4040CCCgga	deleved and	cassababas	crassaassa	cactoogcas	gaacscottg	
2301	caccttcaag attagagaga	201101017	igoctococc	occourant	-ceesagggee	cycccatece	agettictee	TECHARCECT	cecetetess	BCCCBBBEGG	
2401	225000000000	*****	-2866	AGGGGGGGGG	GCCCAGGGGG	BATTCCATTAT	CCCASTGACA	SCECOGRAMA	ASSESSED	64555555666	
2501	and har become	ad-cracton	ou casacces	CESTEROSCE	tttttttt	Cattert cta	ECSECTACAL.	ARCANACTO	ME CHE DOCE !	tannautese	
2601	centacted		y cacactaag	GBGGGGGAEG	3200000000	CCCSCCCCCA	3CCCC & FOFE	Propresent		33855555	
2701	ccdaccees	*******	CAUCOGALC.	AGGARAGE	CYCCALCTU	A A C A A C C C C C C C C C C C C C C C	~ 2	3/3/7/3////	C13003CCC1	(TOTAL TOTAL)	EXON IB
	GANGGGGGGG	4/4/	L-LARGACE.	C. NGET C G G G E G	SCACAGERGA	ACCOCCCAGO	acarerres.	CCF CCC CAGE	PREFERENCE	ANCAFRAGES	
2801	2-20-3-33-		areaccaree	coccs cygac	SECCEPTIFE	BOACABCCCT	gecet acata	Ant ceceete	cetteccta	Perstrant	
2901	ccecce	222224244	Adeceebeed	CCTCCCCTGGG	CIGAGEBEES	PODDBECCEN	CCCBCFACBA	CCTCTNAPPC	Changerena	OCCUPERATOR	
3001	raccassa	erchhedren	cesdascrac	* # # # # # # # # # # # # # # # # # # #	Caccetacet	dattascatt	2333380863	EEEASAGATE	PERAGRAPH .	COST CT PACE	
3101		-3348	ccascccccg	ace ceaaces	CCCLADODEC	EGGGALELEA	art and so oc	ACCCCCCCC	AREA PREACE	rrrmcemant	
3201	caecadoArr	redecrares	ccacageage	residences	AG:3008966	CAGETCETCA	acogoccata.	Ettatecton	eneccapato	ascharance	
	beardeners.		CHACCHACEE	AABCART **C	LALA TOTAL			GET VOL DA	CC IV COLOR	WATER CONTRACTOR	EXON IA
3401	CTCCCACCAG	THE TOUTER	GACAAAGGEC	GCTOGETGGC	AGGGAGACAG	CTCTCGGTYGG	TCCTAGAGCT	1001CVC1CC	YOCIRCYCIC	TCCTCGACAC	
3501	The second second	T. TATE TO THE	CONTACT TRACE	CONTRACTOR OF THE PROPERTY OF	CCTTTCACTG	لا بالا مولسينيان	التلكام بالمستثنيات	CONTRACTOR AND PROPERTY.	THE A A C MICHIGAN	CCC SCIENCE N	
1601	The state of the s	adereadareR	AAAaecsccc	BCZCCAGGGC	CCSACCEUGE	tttcapcccc	A GCCGCGCA	CEGACEOGCE	PERFOAREGE	anneheare.	
3701	cremberes:	CTAGGGGGGG	grgacticec	22222C22C	AACC CCRCT P.	PEPFACTACE	~~~~~~~~	******	***		
3907	-	Triangle : UNA	LUMBURLALL	VOLUME TO STATE OF THE PARTY OF	CACTEGAGTA	CCTCAAGGGG	Garacter Control	TELECTACION	TOCAGARGEA	CLCCCCCCCC	EXON II
3901	, .	E L L	QuT	8 X F F	LZY	vva	U D 1 7	Y v F	2 7 1	1. 6 9 11	
} -,,,,	Increase	تاملت يتهاجاها	CCIGNIGNICS	recurrency:	CYCCLIFCCCC	ANGROCCHEA	#8c8#84#88	decreees	CLCCCCCAGG	tggcagcccc	
4001	<u> </u>	<u> </u>	<u> </u>	4 4 3	T T P	X 3 C					72401
1	COCCESSACE .		- greer cage	redescreece	CECATORCE	receseteca	GECYCCICCE	COULLEVOCCY	PLICITIONC	VISYLLIYEE	EXON III
#101	ADDITIONS O	CTGGGGGAAG	10 10 10 10 10 10 10 10 10 10 10 10 10 1		#1#0#00##-		7 T W	v 5 Q	: L P	HIYO	
1	AGGGTGGTGA (1 5 7			- STEEDSTEELS		WITTCALAGE	CCCNGGGATT		tgtgagtgtg	
4202		aggggagte	GATGGAGGA	agaceaman	Ptengeses-	20220C		P 6 -	P g d	1110151515	EVAN TV
1	testpoutue :		2-17049BCE		resacresc	2377228884		7CT=2Q35AT	- A .	PVVCVCYC	exon ia
4307	Caeccacyce 1	CACADITOTION	ACACACETEC	cocrater	CCTCCCCC2C	*	Piller Pill of Piller	Chaching	<u> </u>	X 2 7 3	
1	APR	LLX	T H L P	L A L	L P O	7 1 7	Tableson, in	2	- PARACECS &	carreses	
4401	ccacaatccc (gcacttine	34ggctcaoo	Caggeanere	ACCEDRATE	COCHAPTE CO	gage-ce				
4501	destacents (200020083	gcastaces .	utucctutes '	Eccesores	******	gageaccety	agcamere,	eageacutey	************	
4601	ggtgegccag (995565966	Aftocatece	ADDREGADOR	2022000000	ccroanacce	gapacaggag	ascescucya	accenggaga	0333635525	
4701	tegcacctet (GEOGETTAG	22222222		acaehadess	BRCECREGOR	SACRABESAR	coortagaca	CACSESCESS	paradaecta	
4801	tggeacctgt (acctosata	****	*********	SARAGACCEE	accadacada	ccscccdade	ccaddadeca	CEGECOAGCC	CACHTTACEC	
4901	ggggaacttc d	COTTON COT	tocadrandt	eracesage ag	9249693639	esrääsässä	cedececede	CACEGGAAAG	eccasaarca	apaderrace	
5001	COACCCOCC C				TETEL	CCARCCEGGG	caocodyses	-mayabagac	CAACGCCCCC	ettttttt	
3101	Departque (amast448ts	cracaattaa	eedsaasadc	anaggeceng	gc gc gg gg c s	ł
5201	tgtgaateca g	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	totales	arenogetti.	affectette	ccccdddaww	gccgcctcec	ececcease	cttgtcccst	cctct3 c3 9c	
5301	DAGAA	.Accepteda	cccdatiance :	06222222	QQCECEECAQ	ECTROACCER	BURBAROCEAG	ACCCC CUREC	CEGACAGGCC	CACAAARTT	į
5401	Saraacaaca (Macracede .	raaraavaca	corceteete	CASALCOGOG	ECTCACCCAC	POSTOCACAT	ESCRITCE	ROJESTES OF	Legict coop	l
5501	Secret 35cel	sectinger.	eredahered		LOSCITOGEC	CLaccactac	egecaaatct	CHRACABOLC	accetetaac	ectesaatte	
1	escettique :		ACHIBUTER BEG	ट्टब्र क्ष ब्रहरू ब र्	acacacaaca	gradedesåå	ggctgagtst	tetgceceta	<u>्यक्ताव्हार</u> ा	YACTIGOCCC	EXON Y
5601	1								- U U V	17 4 15 1	
1	CAACGCAAAG C		e i Luighacha I	CONCINCIAC	CATEGORIA	TO LECYCCE	TEACCETEGG	ACCTUGGACY	acticatedy	STACE CARD	
ł	/ "	<u> </u>	8 Y Y	HYY	7 M A R	VNP	D 4 3	TWDS	7 2 2	X F R	
	OTCOGAGAAG	-Anareeds	-ABBeääsrä	A=8 0 8 2 8 5 4 4	* à ccà * å å å å	togtogetze	gacdereste	BACCCCGCGC	£GGCBCCCCE	tgeetgeete	
5801	Foregrowe a	ACCCA MARKET		****							
1 2202	tocadiosec 3	n-constitut (المتاعلات	CT TO CAGGAC	TOGTOGGAGE	TUNGCEGENE	CONCCUST	CICIACCICI	TCTATGAAGA	CATCLAGGAG	EXON VI
ì			7 2 3	V 0 8 1	W W F 1.	e 0 m	# # V		~		
6001	Ardehermer c	chedeader :	recettedia	tcacacetor .	apaceanrs.	CTCACAGGG.	~~~~~~	Pencenner			
1 0002	ragraygers y	Antrector .	ceeencerie :	ttoocccaaa .	CCECCCCACC	AFAGGCCCC.	cetabeases	ARREST	MACKARAS		
0727	gogicageeg (300000000	C3CDD51:00	BAACS LAGEE .	CEREERGERA	* POOP POOP			*****		,
4.00	reactioners s	accesesage :	aggg4agggc /	agcccatage .	3344263626	ggcagacagc	AAECCTTCTT	accecendos.	ctonogreer	ngognttman	
1 0207	nagreduces c	.96999666	DD&D&D&D&JJ	- 1465222002	accectana.	PPROGRAMM	*****	BACKFERGE	GREERS SERVICE	CCCC-CCCC	
1	caccasass c		eccountacte (CULLINGGGAG ,	YLICHTIGI	TCCTGGAGTT	TGTGGGGCAC	TCCCTCCC>6	AGGAGACCCT	GGACTICATG	EXON VII
,	1		N P	x	7 n e t	,					
1	V Q H T	a s n	T II T		ACCONCAS.	CYCCYCCCLC	CCCCAGAGT	TCATOGACCA	CHOCHTCTCC	COCLICKICK	
1	· • · · ·		<u> </u>	K_N ? X	T N Y	ጥ ጥ V	. 6 2 2	H 13 M	4 + 4	P # # #	l
1	K G	-Arradeed	328485 .		rada sacras	*OCEGCAGES	tecceptagg	coescadaac	cttttttggg	ACGAGACTCC	
6701	seccences of	ceacarta		3/800	10000				00.000	51	PYAN
1	sgccttgctc c		-cecesary	~ 1 · · · · ·	witer Ways	CACCITORCE.	a Leeccery ay	VACACCCC	CONTRACTOR	TATGCGGAGA	EXON VIII
6801	*C********			- A G D	W K T	TIT	A 5 G W	E A P	D A D	YAEK	
1	ACATOCCIOS O	r e	nutracet (Prycatocic,	CIGGGGICAC	TOCAGAGGGA	CTCTGCGAAT	EYMCEJET C	CNICCOCCU	
1 1			3 F R S	EL							
7001	MCMTHM 1	marchaet (TOTAL TOTAL	COLVERNY.	TUTCTOTAN!	CCCAGCAATT	-GGAGGETGA	COTCOGRACIA	TCXGAGC	CCACGAGITC)
7101	פאפאכניאטני :	TATALANCAT	W. IMACY T.C.	<u> </u>	4:3243:AA	ATAMAÇCAX		gagaataaaa	catgatests	95ccaggcat	
7101	*gtggeteat g	/152									

Signite 1. SOUTIAN game sequence. Down sequence is shown in uppercase, while intron. S'-flanking region and 3'-flanking region sequence is in lowercase. The 'ATG' cranslation initiation codon and the 'TGA' translation termination codon are underlined. Asino acid sequence encoded by the gene is listed in single-letter code beneath the nucleocide sequence.

HUMAN SULT1A2 GENE SEQUENCE

-3729	CICCOTTS STATES AND	
-3623	CONCLUDED ADDRAFTIC PROTECTED SECURITIES ACCURATE STRESSAGES SQUEENELD STRESSAGES CONTRACTOR STRESSAGES CONTRACTOR STRESSAGES CONTRACTOR STRESSAGES ACCURATE ACC	
-3525	conception and address creations accommon constructs and address and construct changes are accommon consecutate	
-3429		
-1329		
-7223		
-3129		
-3029		
-2929		
-3729		
-2629		
-2529		
-2429		
-2329		
-7229		
-2129 -2029		
-1929		
-1829		
-1739	Epgaaegeat afteetiget agggetigte getestatead gattititat cyatititat tradition totalititat tradition acturates aggregate falletitit	
-1629	pychatcy decapage topaccal american accorded accorded contacts occapant androped contacts	
-1525	construct detraces decreases the contract and the contract and the contract confidence of the contract of the	
-1429	ALABRATA DATABLETA CATABLETA FREEDRESS SECULOS CONTROLOS CONTRACTOR PARAMETER SECULOS CONTROLOS CONTRACTOR PARAMETER SECULOS CONTRACTOR PROFILE PARAMETER	
-1329	TOTAL TOTAL CONTROL CONTROL OF THE C	
-1229		N IM
-1129		
-1029 -929		!
-829	Universal contracts the contract designature and activities activities and activities and activities activities activities and activities activities and activities	i
-129	etyppercia cuaspespes expatigate treasastet operinger contraper trypacter apparate tricanage trictages engatorice contraper tricanage trictages engatorice	1
-628	enrighted reseased includent sessested octobace essessed included the transmission bearing EXO	
1		T IA
-529	GACTOTOSCE COCCLACTOR ATTACACCCE TORCHAGGET ACCACTTCCC ACATOTOACS GEOCGLOCOR CTCAMOGAGE GEAACATCCC DOMANGANCE	
-429		
-329 -229	Contract to the telephone of the Contract Contra	1
-129		
-23	TANDESTEEN TANDESTEEN THE TANDESTEEN THE PROPERTY CARRESTEEN TO SEE SEEN TO SEE SEEN THE PROPERTY OF THE PROPE	
•	EXC	N II
73	TOCAGAGEA CTGGGGGGGG TOCAGAGGGG CCAGAGGGGG CTTGATGAGG TGCTCATCAG CACCTACCCC AAGTCGGa GGGGAGGAGG GCGGCCGGG	,
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
172		NIII
272		
•"•	CONGASTICES GACATGATET ACCAGGGGG TOACCTGGAA AACTGTCACC GAGATGCCAS CTTCATGCGG GTGCCCTTCC TTGACTTCAA AACTGCCAAGG	
372	ATTICLE TO STREET, STR	
· -		אוע אי
472	CHARTECTER MANCACACE ASSCREAGE CICCICALOR CACACETAGE CETECCTETO CICCOCAGA CICTOTTOM TENGALOGIC ALOPEGAGAC	,
	<u>leabration resultation la babaro de la baba</u>	1
572	then the factorist characters distilled specified designed considered designed the factorist companies	
672	ASSESSMENT APPROXIMENT STREETS ACCOUNTS STREETS ACCOUNTS ANABOLICAL COMPLESSOR PROFILEMENT	
772 972	The state of the s	
972	THE THE PERSON PRODUCT AND THE SECONDARY AND THE PERSON PRODUCT TO A PROCESS AND THE PERSON AND	
1072		
1172	diagranges physicient cattories appointed becaused apprint associate transment appearable transment programmes	
1272	odddocrdad cerdreddo corocace graracado actroadan drasantold bearrang cradorand atribans calcoldoc	
1372		
1472	Annual and Artist the terribles describes described Cities and backed at a second cities and sections	1
1572	anniana anniana annianate cessioned rebimpatos italicator sindiales beadings to coccutise statements	,
1672	provinced designation ecological statements approached the statement of the province of the statement of the	i
1772	PRESENTED THE STREET THE STREET PROPERTY OF COCCOCCOC ASSASSAL ASSETTAGES ASSASSAL ASSETTAGES CONCORDED TO	
1972	PARTON TO THE PROPERTY OF THE	,
2072		
2172		
2272	categories desabacts addractas todoctoons chostons absorber absorber activities activities activities and activities acti	
	expecteder sheerwayers sheerwade codectobed condesport chedarides orthodorne accreation accreated accreated EXO	(♥
2372	CELEGYNOSC TYTOGNADA COSTALICE WELVOCTEL CANCETCALO OCCUPACAS NOCELEVEE LOCANIZACE INTROCLICE LOCATIVELE	
2472	Invitor and the same of the contraction of the cont	
2572	EXCITATION PROPERTY ACCIDENCE ACCIDENCE ADMITTANCE CARCINACE CONTRACTOR CONTRACTOR AND ACCIDENCE ACCIDENCE CARCINACE CONTRACTOR AND ACCIDENCE ACCIDENCE CARCINACE CONTRACTOR CONTRACTOR AND ACCIDENCE CARCINACE CONTRACTOR C	4 VE
2672		
4074	CHACATERADA COMERCEDA COCECCOCCO CACATERACAC CERPORPEAS SCACETCAGA PARACETECC AAROCCACC CECERPORDE	

finite 1 STATIAN sens requestes. Even requestes is shown in uppertises, while intron. 5'-flanking region and 1'-flanking region servence is in loweresse. Amino acid sequence encoded by the gene is listed in single-letter code penesth she nucleotide sequence.

```
1 acctctgcct cctggttcca agcaatcctc cttcctcacc ctccagagta gctgggatta
  61 cacgegeetg ceaeegegee tggeetaatt tttgtatttt tagtagagat gggggtttee
 121 aaccatgttg gccaggctgg tctccaaact cctgacctca ggtgatcctg cccacctaag
 181 cctcccaaaa tgctggtatt acaggcatga gccaccgtgc ccggcctaaa taattaataa
 241 aataatggac gatgggtgcc ttctactgag ctcccggtaa ttgtgagtga gtagaggact
 301 tgccctgggg acattcagtg acctgctggg tgttgctgag ctgtgaggaa gttcaggtct
 361 ggctgcagtg gtgaggctgt gactcaatca atcactgctg atgctcccag gacctgcacc
 421 agettagtee taggggcaag gattttaact gtecacetea gtttetteat ttgtaagatg
 481 caaataacag teacceetge etcatgggat ggagetgtgt aatgeeegca acagtgeetg
 541 ctgcatagag gggttgctgc cagctgcctc tecetecttg tetettacct geetgetgee
 601 tagetcacca tgaagaggg cocttgtgtt gececcacce tggetgeetg ctaagggeee
 661 atgtgatetg cetggcagag gagtttette aggaagaace agggcagett etgeceetag
 721 agggccaatg cccttggtga gtgcagtccc ctggccccag cctggtccac ctctgggaag
 781 agggtgccca gttgtgcaat ccaggcccag gcagctgagc cctcatctca gcatgcaggg
 841 cggatactgg agggggcttg tggcatctga ctctgtatct cctacctgcc cctctccttg
 901 gtadctgtga gaagtcactg ctttggggag acctgatctg gctgtgccag atggacactg
 961-agaaagaagt agaagactca gaattagaag aggtgagtgg gctttggtgg cgggctccct
1021 accccactcc ctgccctggg ctgcctgtga ccacactgct tgcctctgca ggcacactgg
1081 acagacctgc tggagacctg atcetcagtg tccttacccc ctcctacctc ttttctgtgc
1141 cacctgctgt gggtccagca ggtttttact tgagtacaat aaaaagtctg agtcaagggt
1201 gccttatggt ggatgctgag gggaggggcg gagctagtag cccaaggtcc tgccagtcac
1261 ggggcttect caggggcaca gaggaggcag gaggggcccc tggccctagc acgtgaacag
1321 cttctactct gcctggaaac cccatgcctc agctttcccc tacttgcctc tgagctcatg
1381 caattettgg aageetggga gaettaeett gaaattgaat geaaatagga caaagaeeaa
1441 ggaggatggg gggatgccct ccttccacgg ggccctgtgg cttccaagtc ttaatctcct
1501 ctagtetett gtetaeggag ceteetteaa acceagggaa agaaaageae etgeeagggt
1561 tgtttttctt ctaggatctt ctattgatgc tctgtgaggt cccccaggag ccatgaagct
1621 agggetgget cetagggeaa tgggactaca gtgteettgt cetttettat tetttetgtt
1681 ctttcttct ttcttttt tttttttt tttttttgag acagagtctc actctgttgc
1741 ccaggctgga gtgcagtggt gtgatcttgg ctcactgaaa cctccgcctc ctgggttcaa
1801 gtgattetet tgeeteagee teetgagtag etaggattae aggtgeeege cateatgeee
1861 agctaatttt tgtattttta gtagagacag ggtttcacca tgttggccag cttggtctcg
1921 aacteetgae eteaggtgat eetgetgeat egaceteeca aagtaetggg attacaggeg
1981 tgagccacca egeteagect etttettgtt etatatgtee atgetetget ecaettetge
2041 cccttcactc tgccccacac atcactccag actggccttg tggtcagagc ctggaatgcc
2101 tgggctgctg ggggcctgtg gactgcactg ggccagaacc cctgccgcct tcaagactgg
2161 cctgtagcca gcaggtaggt gacttttccc aggccggcct atcccacctt tcccctccac
2221 teacteacet ecettgeetg ggteaattag agaaagettg teggeeagge atggtggete
2281 atgeetgtaa teteageaet ttgggaggee gaggegggeg gateatetga geteaggagt
2341 ttgagaccag cctggccaac atggcaaaac cccgtctcta ctaaaaatac aaaaattaac
2401 cggatgtggt ggtgtgcacc tgtaatccca gctactcggg aggctgaggc agaagaatcg
2461 cttgaaccca ggaggggag gttacagtga gcggagatcg tgctactgca ttgcagcctg
2521 ggcgagagag cgagteteca teteacataa aaaaaagaaa aagaaagaaa gcaagettgt
2581 ctgttggcct gccctgcagg gtggagttca gagggaaggt caggagccta gtgacagctc
2641 aaaaaaaaa aaacccaaat accaatgttg gccccttttg cctttcattc atgtgttttc
2701 tatacactaa actcacatat tgggtttgca gatcactcca agcttggctg gagctgtggt
2761 ggtaaggagg gtaatagaga agetteecca eceteaacce cacceettee tteetggagt
2821 teccageest gaetttagat eceteegaea etggaeette aaaaceetea gggeagagag
2881 cagecetaca etecetacae cacacecata eteageceet geaggeaagg agagaacagg
2941 tcaggttccc gagagetcag gtgagtgaca egttggaatg geceagggea cetteaceet
3001 geteagettg tggetecaac attetagaag eegaggeete tgeeateeet geeettteee
3061 atggatattc catttcaatt agacaaccca gcctggccgg aatccccctg cgttccttct
3121 tttcctttgt gtatttttga gacagggtgt tgctccgtca cccaggctgg agtgtagtgg
3181 gatectggee cactgeagee teaaatteet aggetgagge aatectgeeg eeteageete
```

```
3241 ctgagtaget ggggttacaa gagcaageca ccacacccag ctaattttga aaaatatttt
 3301 ttgtagagga gaggtettge tttgttgtec aggttggtet caaactecag ggeteaaggg
 3361 atcetttece gttggeetee caaggetetg ggattacagg egggagteae eetgeetggg
 3421 cccctccttt tgatgagtca tcagttttca ttcccgcacg aggetetage ccctggtacc
 3481 agettagttg ctcaatgggc tgtgtttgtt ctggagccca gatggactgt ggccaggcaa
 3541 gtggatcaca gacctggccg gcctgggagg tttccacatg tgaggggcat gagggggct
 3601 caaggaggg agcatcgggg agaggagcgc actgggtgga ggctgggggt cccagcagga
 3661 aatggtgaga caaagggcgc tggctggcag ggagacagca caggcaggcc ctagagcttc
3721 ctcagcacag ctggactctc ctggagacct tcacacaccc tgatatctgg gccccgcgct
3781 acgagggtgc tttcactggt ctgcactatg ccccaggccc tgggattttg aacagctctg
3841 caggtgactg aaaggtgcgg ccaggctggg gaacgacctg gtttcagccc cagccccgcc
3901 actgactgac tttgtgagtg cgggcaagtc actcagectc ectaggectc agtgacttce
3961 ctgaaagcaa aaactctgca aaggggcagc tgggtgctgg ctcacacctg taatcccagc
4021 actttgggag getgaggtag acaaateact tgaggeeagg agttetagae cageetggee
4081 aacatggtga aaccccatct ctactaaaga aaaaaaaaa ttagctgagc atggttgtac
4141 atgettgtaa teecagetae ttgggatgee gaggegggag gattgettga acceaagagg
4201 tggagtttgc agtgagctga gattgtgcca cactgcactc cagcttgggt gagagtgaga
4261 ctccatctca aaaaaaaaaa aaaaaagaga gaatcccact ttcttgctgt tgtgatggtg
4321 gtaagggaac gggcctggct ctggcccctg atgcaggaac atggagctga tccaggacac
4381 ctcccgcccg ccactggagt acgtgaaggg ggtcccgctc atcaagtact ttgcagaggc
4441 actggggccc ctgcagagct tccaagcccg acctgatgac ctgctcatca acacctaccc
4501 caagtotggt aagtgaggag ggccacccac cototoccag goggcagtoc coacottggt
4561 cagcaaggte gtgccctcag cetgeteace tectatetee etceetetee aggeaceace
4621 tgggtgagcc agatactgga catgatctac cagggcggcg acctagagaa gtgtaaccgg
4681 gctcccatct acgtacgggt gcccttcctt gaggtcaatg atccagggga accctcaggt
4741 gcatggctgg gtcctggggg taagggaagt ggaggaagac agggctgggg cttcagctca
4801 ccagacette cetgacecae tacteagge tggagaetet gaaagacaca cegececeae
4861 ggctcatcaa gtcacacctg cccctggctc tgctccctca gactctgttg gatcagaagg
4921 tcaacutgag gccggqctca atggttcaca cctgtcatcc cagtttgaga ctgaggaggg
4981 aggatecett gaaggegaga gatggagaee ageetgggea acattgetgt agagatgaea
5041 teccatetet acaaaaataa aattaacaac etggtatggt ggcatagact gtteecagtt
5101 acttaggagg ctcagcgggg aggactgttt atgcaaatag gaagctgcaa tgagccctga
5161 tgatcctgct gctgcactcc agcctgggca acacagcaaa accatctcta cgaaaaaaaa
5221 agttcccact gactggcaag gaaagccagg aaggggggct caggtgccct ctcagccatg
5281 tacctgttct tctggaaggg cctcctcgct tctgccaggc tcatcacatc ttttttttt
5341 ttgagacaga gtcttgctct gtcaccctgg ctggagtgca gtggcatgat ctcagctcac
5401 tgcaacctcc gcctccccag ttcaagtgat tctcctgcct cagcctcctg agtagctggg
5461 attacagges tstgctacca cacceggeta atttttgtat tettttagt agagacgggg
5521 tttcaccatg ttggtcaagt ggatctcaaa ctcttgacct tgtgatcctc ctgcctcgac
5581 ctcacaaagt gctggaatta caggcgtgag ccaccgcgcc tggccctttt ttttttgag
5641 acagtttcac tettgttgcc gaggetagag egeaategtg tgateteggt teaetgcaac
5701 caccgcctcc tgggttcaag caattctcct gcttcagcct cccaaggagc tgggattaca
5761 ggtacctgcc·accacgcccg gctaattttg tatttttagt agagatgggg tttcaccatg
5821 ttggtcaggc tggtcttgaa ctcctgacct caggtgatct ggcaccttgg cctcccaaag
5881 tgccgggatt agaggcatga gccaccacgc ccagcettca tcacatettg agagaggaca
5941 ctgtctgcct cttgctctga tgagggtctg atgcaaagga tagtgagtct ctacagtgca
6001 cacttaagaa aggcagcatg tgggtgctca caggtcaggc ggaggagggg gagctggtgg
6061 ggaccaggca tgccttgctc cagatcagga tatgatggca ttggtgcaga ttatattagt
6121 atagaatatg gtctcaggaa ccaggcagga ctttggcttc cgagcagggt tcagatccca
6181 gcttggccct acctgtgcag tgagatctca agcaagtcag cctctaagcc tcaggttcct
6241 cctttgccag ttcaacagat gagetggeet ggggtggget gtgtggtgat ggtgetgggg
6301 ctqqqtcctc tqcccctqca qqtqqtctat qttqcccqaa acccaaaqqa cqtqqcqqtc
6361 tectactace atttecaceg tatggaaaag gegeaceetg ageetgggae etgggaeage
6421 ttcctggaaa agttcatggc tggagaaggt gggcttgact ggaggaagga gggtgtgaag
6481 ccgagggtg gtggctataa cgtacagcaa ccctgtgtcg gtgccccctg cccgcttctc
6541 tagitgiccta egggiccigg taccagcacg tgcaggagtg gtgggagctg agccgcaccc
6601 accetgetet etacetette tatgaagafa tgaaggaggt gagacegact gegatgette
```

```
6661 cccccatgtg acacctgggg gcaggcacct cacagggacc caccaaggcc acccagcccc
6721 gtccctgggc ggctcccaca gcaagccegg attccccatc ctacctccct ggcccaggcc
6781 ecceaetge agececaect ggeageagge teggeacage ttteatette tgeaectgag
6841 tragetgrat gggtggccar ggatragata ettagterta ttgettater traccaaagg
6901 gtgtgccacc cagggccaca gtcatggaag aagaccatcc cggtcctcac ccataggcgc
6961 caagccctgt tcatgatggg atcacagggc agagatcaat tcattttact cca_kgacta
7021 gggccccagg ggttgaggct ctttggggtt tctaggggaa gtggccagat cccctctgag
7081 gttagagagg gggaccegtt ttgttttgct ccactgagga gccctctgct gctcagaacc
7141 ccaaaaggga gattcaaaag atcctggagt ttgtggggcg ctccctgcca gaggagacca
7201 tggacttcat ggttcagcac acgtcgttca aggagatgaa gaagaaccct atgaccaact
7261 acaccaccgt cocccaggag ctcatggacc acagcatete cocctteatg aggaaaggtg
7321 ggtgctggcc agcacggggg tttggggcgg gtgggagcag cagctgcagc ctccccatag
7381 gcacttgggg cotcocctgg gatgagacte cagetttgct coctgeette ctoccccagg
7441 catggctggg gactggaaga ccaccttcac cgtggcgcag aatgagcgct tcgatgcgga
7501 ctatgeggag aagatggeag getgeageet eagetteege tetgagetgt gagagggget
7561 cctggagtca ctgcagaggg agtgtgcgaa tctaccctga ccaatgggct caagaataaa
7621 gtatgatttt tgagtcaggc acagtggctc atgtctgcaa tcccagcgat ttgggaggtt
7681 gagetggtag gateacaata ggeeacgaat ttgagaceag cetggtaaaa tagtgagace
7741 tcatctctac aaagatgtaa aaaaattagc cacatgtgct ggcacttacc tgtagtccca
7801 gctacttggg aagcagaggc tggaggatca tttcagccca ggaggttgtg gatacagtga
7861 gttatgacat gcccattcac tacagcetgg atgacaagca agaccetece tecaaagaaa
7921 ataaagetea attaaaataa aatatgattt gtgtteatgt agageetgta ttggaaagga
7981 agagaaactc tgagctgaaa gagtgaatgc ccggtggggc cacatatggt cacctctccc
8041 ccagcettca getececagg teaccatate tggggagggg agaagggttt ggagaagtaa
8101 aacccaggag atgtgtggag gggggatgtc tgtttaatcc cagcacatcc tctgctgtcc
8161 tgccccaaga tggtggagga cgtcgagtcc gccgggcagc gtcacttttt cttgggctcc
8221 ttagaagcta ccaggtacct ctgggccaca ctgagatgag gggagtagcc gcctgcatag
8281 gaggtgtctt caaacaggat agtatagtcc ctcctggggg ttgtgggggt aggtggccaa
8341 ggaagggtag aggagcaagc ccccggggct ggttgtcaac tcactttgtt ggctggaatt
8401 ggttgtaact tgaccacctc gggcaggatc ccactgctca tccccaa
```

//